

APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-17.

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

27th September, 1984

686|Cal|84. Dr. Niharendu Bikas Sinha. New approach for Detoxification of saline and/or alkaline or acidic soils by using few new on-exchanging compounds for ideal growth, development and yield of crops maintaining good soil health.

687|Cal|84. Wildemeersch Dirk. Device for fixing an intrauterine contraceptive device to the uterine wall.

688|Cal|84. Memorex Corporation. Disk Accessing Circuity.

689|Cal|84. Pall Corporation. Fluid Purifier.

690|Cal|84. SPOFA. Motion unit, especially for manipulators, industrial robots and prosthetic elements.

691|Cal|84. McConway & Torley Corporation. An arrangement for attaching a striker to a sill for a railway vehicle. [10th Sept. 1982].

692|Cal|84. Tandem Computers Incorporated. Automatic memory board reconfiguration.

693|Cal|84. Tandem Computers Incorporated. Enhanced CPU Microbranching Architecture.

694|Cal|84. Tandem Computers Incorporated. Multiple data path CPU Architecture.

ALTERATION OF DATE

154497. Ante dated to 15th June, 1978.
(938|Cal|82).

154498. Ante dated to 25th April, 1979.
(1015|Cal|82).

154532. Post dated to 20th January, 1982.
(1295|Cal|81).

154535. Ante dated to 4th September 1980.
(1494|Cal|82).

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 146-D.

154473.

Int. CL : G 02 b 23/00.

AN IMPROVED 'EYE-PIECE' SYSTEM FOR USE IN A NON-GALILEAN INFRA-RED OPTICAL SYSTEM.

Applicant : PILKINGTON P.E. LIMITED, PRESCOT ROAD, ST. HELENS, LANCASHIRE, GREAT BRITAIN.

Inventors : 1. DUNCAN ROBERT JOHN CAMPBELL,
2. PHILIP JOHN ROGERS.

Application No. 738|Cal|81 filed July 4, 1981.

Convention date 24th July 1980 (8024210) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

An "eye-piece" system for use in a non-Galilean a focal infra-red optical system or a focal infra-red telescope, the "eye-piece" system comprising at least three lens elements including a back element of positive power having a front surface which is convex and a curved back surface, and a pair of elements which are closely spaced to define a gas lens therebetween, the back element of the pair having a convex back surface and the front element of the pair having a concave front surface whose radius of curvature is equal to or greater than that of the convex back surface of the back element of the pair, the pair of elements in combination with the gas lenses therebetween being of positive power.

(Compl. specn. 26 pages. Drgs. 2 sheets).

CLASS : 56E.

154474.

Int. Cl. : C 07 c 7/00.

PROCESS FOR WORKING UP THE BOTTOM PRODUCT FROM EXTRACTIVE DISTILLATION PROCESSES, FOR THE ISOLATION OF PURE HYDRO-CARBON.

Applicant : KRUPP-KOPPERS GMBH, MOLTKE-STRÄSSE 29, D-4300 ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. GERHARD PREUSSER, 2. MARTIN SCHULZE.

Application No. 750|Cal|81 filed July 6, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An improved process for recovering highly pure hydro-carbon from the bottom product of extractive distillation processes with advantages of high heat recovery and economics of solvent recovery which comprises subjecting the feed of a mixture of hydrocarbons from which the said hydro-carbon is to be recovered to an extraction step in an extractive distillation column followed by processing the bottom product of the extractive distillation column to a step of stripping in a stripping column provided with trays and reboilers and wherein pure hydrocarbon is recovered from the top of the stripping column while the solvent separated is recovered from the bottom of the stripping column which solvent is, if desired after being subjected to heat exchange in the process, recycled to the solvent feed of the extractive distillation column characterized by the improvement wherein a side stream is taken from the said stripping column at a place or location above the feed tray to which the bottom product from the extractive distillation column is fed, said location having therein a reflux vaporising tray with a raised liquid level, said side stream taken from the said stripping column being subjected to heat exchange by indirect heating by the relatively hot solvent recovered as bottom product from the stripping column and flowing back as reflux to said extractive distillation column, said side stream so heated being thereafter reintroduced into the stripping column onto the said reflux vaporising tray or any other higher tray, the solvent concentration at the reflux vaporizing tray being maintained at a value of between 10 and 70% by weight and wherein the temperature difference, between the reflux vaporizing tray and a higher tray, preferably the 4th to 6th tray above the reflux-vaporising tray, and the reflux rate are interdependent on one another.

Compl. specn. 15 pages. Drgs. 1 sheet.

CLASS : 32-E. 154475.

Int. Cl. : C 08 f 15|00.

PROCESS FOR THE PREPARATION OF COPOLYMERS OF ETHYLENE WITH AT LEAST ONE OTHER 1-ALKENE.

Applicant : STAMICARBON B. V., OF P.O. BOX 10 6160 MC GELEEN, THE NETHERLANDS.

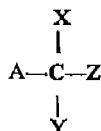
Inventors : 1. GEORGES GERARD EVENS, 2. EMA-
NUEL MARIA JOZEF PIJERS, 3. RENE HUBERT MA-
RIA SEEVENS.

Application No. 825|Cal|81 filed July 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Process for the preparation of copolymers consisting of 25—85% by wt. of ethylene, 15—75% by wt. of at least one other 1-alkene and optionally up to 20% by wt. of a polyunsaturated compound known for the purpose with application of a catalyst system containing a compound of a metal from sub-groups IV—VI of the periodic system and a compound of a metal from groups I—III of the periodic system, in which at least one hydrocarbon group is bound directly to the metal atom via a carbon atom, characterized in that the polymerization is carried out in the presence of a halogen-containing compound of the general formula



where A is a phenyl group which may contain one or two substituent halogen atoms or alkyl groups, or is a thietyl furyl, pyrrolyl, N-alkylpyrrolyl or pyridyl group, which group is bound to the carbon atom directly or via a carbonyl group, X is a chlorine or bromine atom.

Y is a chlorine, bromine or hydrogen atom or a hydrocarbon group with 1—8 carbon atoms, and

Z is a group of any one of the formulas 1—9 of the formula sheet 1, in which both R and R' are a hydrocarbon group with 1—8 carbon atoms, and X is a chlorine or bromine atom.

(Compl. specn. 18 pages. Digs. 2 sheets).

CLASS : 32-E. 154476.

Int. Cl. : C 08 f 15|00.

PROCESS FOR THE PREPARATION OF COPOLYMERS OF ETHYLENE WITH AT LEAST ONE OTHER 1-ALKENE.

Applicant : STAMICARBON B.V., OF P.O. BOX 10, 6160 MC GELEEN, THE NETHERLANDS.

Inventor : 1. GEORGES GERARD EVENS, 2. EMA-
NUEL MARIA JOZEF PIJERS, 3. RENE HUBERT MA-
RIA SEEVENS.

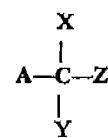
Application No. 826|Cal|81 filed July 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Process for the preparation of copolymers consisting 25—85% by wt. of ethylene, 15—75% by wt. of at least one other 1-alkene and optionally up to 20% by wt. of a polyunsaturated compound known for the purpose with application of a catalyst system containing a compound of a metal from sub-groups IV—VI of the periodic system and a compound of a metal from groups I—III of the periodic system, in which at least one hydrocarbon group is bound directly

to the metal atom via a carbon atom, characterized in that the polymerization is carried out in the presence of a halogen-containing compound of the general formula



where A is a phenyl or benzoyl group with one or two substituent nitro groups,

X is a chlorine or bromine atom,

Y is a chlorine, bromine or hydrogen atom or a hydrocarbon group with 1—8 carbon atoms, and

Z is a hydrogen atom or a group having one of the formulas 1—11 of the formula sheet, in which both R and R' are a hydrocarbon group with 1—8 carbon atoms and X is a chlorine or bromine atom.

(Compl. specn. 13 pages. Digs. 1 sheet).

CLASS : 62D. 154477.

Int. Cl. : D 06 m 1|00.

IMPROVEMENTS IN AND RELATING TO THE APPLICATION OF REACTABLE REAGENTS WITH SUBSTRATES.

Applicant : ADNOVUM AG, OF SEESTRASSE 100, CH-9326 HORN, SWITZERLAND.

Inventor : 1. ALFRED EMIL LAUCHENAUER.

Application No. 827|Cal|81 filed July 22, 1981.

Convention date 22nd July 1980 (23880|80) and 2nd March 1981 (06557|81) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A method of treating a substrate surface with reagent which method comprises :

- (i) establishing said reagent in a liquid phase;
- (ii) forming a foam of said liquid phase;
- (iii) applying said foam to said surface to be treated;
- (iv) causing the foam to collapse (in a known manner such for example as described heretofore) at the interface with said surface being treated to deposit reagent thereon;
- (v) controlling (in a known manner such for example as described heretofore) the rate of foam collapse thereby controlling the rate of application of reagent to the surface; and
- (vi) thereafter removing or deactivating the reagent on the surface when said treatment is complete.

(Compl. specn. 29 pages. Digs. n/a).

CLASS : 84B. 154478.

Int. Cl. : C 10 J 1|00.

PROCESS FOR PRODUCING MIXTURES OF METHANOL AND HIGHER ALCOHOLS.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN ITALY.

Inventors : 1. ALBERTO PAGGINI, 2. VINCI-
LAZANA, 3. GIOVANNI MANARA, 4. VITTORIO FATTORE.

Application No. 957|Cal|81 filed August 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for preparing a methanol/higher alcohol mixture, characterized by reacting hydrogen and carbon monoxide in a H₂ : CO molar ratio of from 0.1 : 1 to 20 : 1 at a temperature of from 300 to 500°C and at a pressure of from 2000 to 16000 Kpa, in the presence of a catalyst comprising chromium, zinc and at least one alkali metal.

(Compl. specn. 13 pages. Drgs. Nil).

CLASS : 85Q & J.

154479

Int. Cl. : F 27 b 7/26.

DRIVE FOR ROTATING DRUM.

Applicant : F. L. SMIDTH & CO. A/S, OF 77, VIGERS-LEV ALLE, DK-2500 VALBY COPENHAGEN, DENMARK.

Inventors : 1. PER BIRCH, 2. CHR. MARCUSSEN.

Application No. 1144|Cal|81 filed October 17, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Drive for a drum, preferably a rotary kiln, rotating about a horizontal or vaguely oblique axis, and mounted on more than two roller pairs separated by an axial distance relative to each other, of which roller pairs at least two individual rollers are each driven via a hydrostatic motor, characterized in that the torque distribution for the drum (1) from the hydrostatic motors (5) distributed in power circuits each comprising a hydrostatic motor (5), a variable displacement hydrostatic pump (9) and a pump drive motor (10) being set at such values that the slip in the individual power circuit lies within permissible limits and that each power circuit further more comprises controls known per se adapted for setting stop, minimum and maximum speed as well as ramp time between these speeds corresponding to the torque distribution desired at all times.

Compl. specn. 5 pages

Drugs. 1 sheet.

CLASS : 157C.

154480

Int. Cl. : B 60 m 3/00.

A CONTROL CIRCUIT FOR A DIRECT CURRENT MOTOR DURING TRACTION OR BRAKING.

Applicant : JEUMONT-SCHNEIDER, OF 31-32, QUAI DE LION BOUTON, 92811 PUTEAUX CEDEX, FRANCE.

Inventor : 1. MICHEL BRULARD.

Application No. 1208|Cal|81 filed October 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A control circuit for a direct current motor during traction or braking, whereby energy from a separately excited direct current motor, as of the type which is used to power railway traction vehicles can be either dispersed or recovered, said circuit comprising a chopper and energy dispersal resistor means, characterized in that means are provided for disengaging the resistor means when the motor is providing traction but with said resistor means being series-connected to the motor and to the power supply during braking action

Compl. specn. 8 pages.

Drugs. 1 sheet.

CLASS : 6 A, & 2.

154481

Int. Cl. : F 04 b 1/00.

COMPRESSOR.

Applicant : BARR & STROUD LIMITED, OF CAXTON STREET, ANNIESLAND, GLASGOW G13 1HZ. SCOTLAND.

Inventor : 1. ALEXANDER IAN SCOTT MITCHELL

Application No. 1230|Cal|81 filed November 5, 1981.

Convention date 5th November, 1980 (8035460) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A gas compressor comprising a housing defining a compression chamber, a piston reciprocable within said chamber and drivingly connected to one end of a lead screw which co-operates with and is linearly driven by a nut forming part of the rotor assembly of an electric motor.

Compl. specn. 11 pages.

Drugs. 2 sheets.

CLASS : 47C.

154482

Int. Cl. : C 10 b 27/06.

AN ECCENSION PIPE ON COKE OVENS.

Applicant : DR. C. OTTO & COMP. GMBH., OF CHRISTIRASSE 9, 4630 BOCHUM, WEST GERMANY.

Inventors : 1. THEO KODDENBERG, 2. FRANZ JOSEF HEGEMANN.

Application No. 1266|Cal|81 filed November 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

An ascension pipe disposed on the roof of coke ovens, the pipe having a brick lining and being adapted to convey distillation gases to a gas main, characterised in that the brick lining (13) is covered by a tube (17) of heat-resistant steel.

Compl. specn. 4 pages.

Drugs. 1 sheet.

CLASS : 145D.

154483

Int. Cl. : B 30 b 3/00.

DEWATERING PRESS SECTION IN PAPER MAKING MACHINE.

Applicant : BELOIT CORPORATION BELOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventor : 1. DONALD ALEXANDER ELY.

Application No. 1394|Cal|81 filed December 7, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

In a paper making machine dewatering press section for effecting substantially equal pressing and dewatering of both faces of a freshly felted paper web :

first press roll means providing a double action dewatering first nip through which the web passes in engagement between corunning porous dewatering felts, so that both faces of the web are substantially equally pressed and dewatered in such nip; second press roll means comprising a four roll stack providing second, third and fourth nips through which said web runs successively; a dewatering felt running in engagement with one face of said web through said second nip, and the opposite face of said web being in direct press roll engagement in this nip; both faces of said web being in direct engagement with press rolls in said third nip; and a dewatering felt running in engagement with said opposite face of said web in said fourth nip and said one face of said web being in direct press roll engagement in this nip; so that said web leaves said press section as a paper sheet having both faces substantially equally pressed and dewatered and thereby possessed of substantially equal ink, size or coating receptivity or absorption characteristics.

Compl. specn. 14 pages.

Drugs. 1 sheet.

CLASS : 172 D4.

154484

Int. Cl. : D 01 b 7/86

CARRIER DEVICE FOR AT LEAST TWO TWISTER OR BOBBIN TUBES.

Applicant : PALITEX PROJECT COMPANY GMBH, OF WEESEWEG 8, 4150 KREFELD 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. ULRICH LOSSA.

Application No. 1407|Cal|81 filed December 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A carrier device for at least two twister or bobbin tubes comprising a substantially sleeve-shaped carrier member for carrying the tubes axially one above the other and, having a first support surface located in its central region whose circumference is smaller than the inner circumference of the lower twister tubes to enable the latter tube to be slipped onto the carrier member, and an annular or disc-shaped pull-off aid which is slipped onto said first support surface.

Compl. specn. 14 pages

Drgs. 2 sheets.

CLASS : 190A.

154485

Int. Cl. : H 02 n 11|00.

BLADE PITCH ANGLE CONTROL DEVICE FOR A WIND TURBINE GENERATOR.

Applicant : UNITED TECHNOLOGIES CORPORATION, OF 1, FINANZIAL PLAZA, HARTFORD, CONNECTICUT 06101, U.S.A.

Inventors : 1. JOHN PETER PATRICK, 2. JOSEPH MICHAEL KOS, 3 KERMIT IVAN HARNER.

Application No. 1439|Cal|81 filed December 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A blade pitch angle control device for a wind turbine generator having power components including a variable pitch blade rotor driving an electric generator through a gear set, said control comprising means for providing a wind velocity signal indicative of average present wind velocity, and signal processing means responsive to said wind velocity signal for providing a power reference signal indicative of the desired blade pitch angle for said wind turbine generator to withstand wind at the velocity indicated by said wind velocity signal, characterized by :

means providing a turbulence factor signal indicative of the degree to which the present instantaneous wind velocity may exceed the present average wind velocity; and

said signal processing means being responsive to said turbulence factor signal for providing a gear set capacity signal as a function of said wind velocity signal and said turbulence factor signal indicative of the desired blade pitch angle for said rotor to safely drive said gear set in response to maximum likely wind velocities indicated by said wind velocity signal and said turbulence factor signal, said signal processing means being further responsive to said wind velocity signal for providing a blade capacity signal as a function of said wind velocity signal indicative of the desired blade pitch angle for said rotor to safely accommodate said wind velocities indicated by said wind velocity and said turbulence factor signal said signal processing means providing said power reference signal indicative of desired blade pitch angle as a function of a selected one of said blade capacity signal and said gear set capacity signal to provide a power reference signal indicative of the largest allowable blade pitch angle for safe operation of said rotor and gear box.

Compl. specn. 13 pages.

Drgs. 1 sheet.

CLASS 42A.

154486

Int. Cl. A 24 f. 13|06.

AN IMPROVED CIGARETTE FILTER.

Applicant : BROWN & WILLIAMSON TOBACCO CORPORATION, 1600 WEST HILL STREET, LOUISVILLE, KENTUCKY, U.S.A.

Inventor : 1. ROBERT ALOIS SANFORD.

Appropriate office for opposition proceedings (Rule 4, Application No. 1441|Cal|81 filed December 22, 1981. Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A filter for a cigarette comprising :

a porous filter rod of cylindrical configuration having a longitudinally extending tube centrally disposed therein extending a preselected distance from one end thereof;

a smoke impervious wrapper extending longitudinally along said rod from one end thereof and circumscribing said rod leaving flow-through opposed ends of said rod, said wrapper having at least one longitudinally extending groove embedded into the filter rod and that portion of the wrapper defining the groove remaining smoke impervious, said groove being open ended at and extending from one of said ends a distance less than the length of the filter rod; and

tipping material extending longitudinally of and circumscribing said wrapper, said tipping material being air pervious and permitting ventilating air flow therethrough into said groove, said ventilating air being the only fluid flowing through said groove when the filter is used in combination with a cigarette during normal smoke draw.

Compl. specn. 9

Drgs. 2 sheets.

CLASS 129Q

154487

Int. C 1 B 23 k 15|00.

METHOD FOR SEAM WELDING OF THICK METAL PLATES BY MEANS OF AN ELECTRON BEAM.

Applicant : SCIAKY BROS. INC., OF 4915 WEST 67TH STREET, CHICAGO, ILLINOIS 60638, U.S.A.

Inventors : 1. ALBERT M. SCIAKY. 2. WILLIAM J. FARRELL. 3. JULIUS L. SOLOMON.

Application No. 3|Cal|82 filed January 1, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method of seam welding two thick* metal plates by the electron beam welding process along the full length of their adjacent edges, comprising the steps of:

generating an electron beam directing the said electron beam towards the said plates so that it strikes the adjacent edges of the said workpieces; deflecting the beam along two mutually perpendicular axes in accordance with a predetermined program of beam deflection and dwell time so as to produce a matrix of points upon the plates;

moving the said plates in a direction parallel to the seam to be welded; and

repeating the afore-mentioned program of beam displacement and dwell time continuously as the plates are moved under the beam.

Compl. specn. 16.

Drgs. 2 sheets.

CLASS 631

154488

Int. Cl. H 02 k 19|00.

CIRCUIT ARRANGEMENT FOR PROTECTING A CURRENT LEADING CIRCUIT OF SYNCHRONOUS MACHINES.

Applicant : SKODA KONCERNOVY PODNIK, 31600 PLZEN 12, CZECHOSLOVAKIA.

Inventors : 1. JAN SMOLAK. 2. JAROMIR SIMR.

Application No. 66|Cal|82 filed January 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

Circuit arrangement for protecting a current leading circuit of synchronous machines with a rotor winding fed over a slip rings comprising active brushes, measuring brushes and a measuring element, wherein a second resistor connected at nodes to active brushes is connected in parallel to terminals of the excitation voltage and the active brushes contacting slip rings are connected at connecting points to the rotor winding, whereby a slidible center tap of the second resistor is connected over a measuring element with a slidible center tap of the first resistor connected over measuring brushes to slip rings.

Compl. specn. 5 pages.

Drgs. 1 sheet.

CLASS : 50E₂

154489.

Int. Cl. B 63 j 2/00.

SELF-HEATING OR SELF-COOLING VESSEL.

Applicant & Inventor. HANS OSTERRATH, OF D-5928 LAASPHE-3, WEST GERMANY.

Application No. 103|Cal|82 filed January 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

Self-heating or self-cooling vessel, the contents of which can be heated or cooled by means of a heat or cold mixture respectively and which has several closed compartments for receiving these vessel contents or for each receiving one component of the heat or cold mixture, in which vessel the partition wall between the component compartments can when required, be destroyed to permit intermixing of the components which is associated with the generation or consumption of heat, characterised in that there is a heating or cooling cartridge (1) which is formed by a central pushed-in portion (3) of the vessel bottom (4) surrounding the component compartments (5; 7), with located in the pushed-in portion (3) at least one breakable ampoule (5) filled with one component of the heat or cold mixture, the pushed-in portion (3) being closed by an elastic diaphragm (6) which can be actuated to break the ampoule (5).

Compl. specn. 12 pages.

Drgs. 2 Sheets.

CLASS : 129-E.

154490.

Int. Cl. B 21 j 5/02; B 21 k 1/76, 29/00.

PRECISION FORGING METHOD.

Applicant FATON CORPORATION, AT 100 ERIEVIEW PLAZA, CLEVELAND, OHIO 44114, U.S.A.

Inventors : 1. ALVING MORTON SABROFF, 2. SAMUEL CARL CHAMBERS, 3. JAMES CARROLL REAM.

Application No. 190|Cal|82 filed February 18, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A method of precision forging a part of low to medium carbon level carbon or alloy steels by bulk deformation of a substantially solid billet comprising the steps of :

(a) providing properly sized, shaped and cleaned billets of a given low to medium carbon level carbon or alloy steel;

(b) heating the billets to a preselected temperature falling in the range of .68-.74 for the homologous temperature ratio of the billet material;

(c) locating the heated billet in a first die member on a forging machine;

(d) precision forging the billet while substantially at said pre-selected temperature by engaging the heated billet with a second die member generally complementary with the first die member; and

removing the forged workpiece from the forging die members and allowing the forged workpiece to cool.

Compl. specn. 11 pages.

Drgs. 1 sheet.

CLASS : 68-E₁

Int. Cl. G 05 f 1/08.

SHORT-CIRCUIT PROTECTION FOR DIRECT-CURRENT REGULATING CIRCUITRY.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : ANTONIO BRAIDER.

Application No. 198|Cal|82 filed February 19, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Direct-current regulating circuitry, comprising :

a switching device, through which load current supplied by the circuitry flows when the circuitry is in use;

comparison means arranged to produce a control signal that is dependent in value upon difference between an actual-value signal, produced in the circuitry as a measure of the actual load current being supplied thereby, and a selected desired-value signal applied to the circuitry when it is in use;

reference-signal generator means for providing a periodic reference signal, which varies cyclically in value between two predetermined limits;

control means arranged to compare the said control signal with the said reference signal so as to produce switching pulses, initiated respectively by coincidence in instantaneous value between the control and reference signals, at an output which is connected to a control input of the said switching device to render it conductive for the length of each switching pulse; and

an excess-current protection device connected with the said switching device for sensing current therethrough in excess of a predetermined magnitude and thereupon rendering the switching device non-conductive until such time as the leading edge of a subsequent switching pulse is applied to its control input;

the circuitry being such that, when it is in use, persistence of the conditions responsible for such excessive current will bring about progressive change in value of the said control voltage such that it eventually attains a value outside the said limits of the said reference signal, with the result that the said switching device thereafter remains non-conductive.

Compl. specn. 16 pages.

Drgs. 1 sheet.

CLASS 70-C₅

154492.

Int. Cl. H 011 7/68.

SLURRY DRIP-FEEDING APPARATUS.

Applicant : HITACHI LTD., OF 4, 1-CHOME, MARUNOUCHI, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. TOMATSU KAMOSHIDA, 2. FUMIHIKO ITSUMI, 3. YASUAKI UCHIDA.

Application No. 468|Cal|82 filed April 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A slurry drip-feeding apparatus comprising

a. a slurry agitating tank;

b. at least one conduit formed of flexible material communicating at an upper end with said slurry agitating tank and connected at a lower end to a drip-feeding nozzle;

c. a back plate cooperating with an opposed portion to hold there between a lower end portion of said conduit, said opposed portion being either fixed or adjustable;

d. a roller for squeezing said conduit from above toward the lower end portion of said conduit held between said back plate and said opposed portion against the biasing force of the back plate;

e. means for driving said squeezing roller to move in vertical directions and in directions parallel to the direction in which said biasing force of said back plate acts; and

f. means for arranging at least one work below said drip-feeding nozzle in timed relation to the movement of said squeezing roller and transferring the work to the next following station when drip-feeding of slurry is finished.

Compl. specn. 15 pages.

Drgs. 3 sheets.

CLASS 102-B

154493

Int. Cl. F 15 b 7/02.

A VARIABLE GAIN SERVO CONTROLLED DIRECTIONAL VALVE FOR CONTROLLING FLOW OF REMOTELY POSITIONED HYDRAULICALLY OPERATED DEVICES.

Applicant : SPERRY CORPORATION, OF 1401 CROOKS ROAD TROY, MICHIGAN 48084, U.S.A.

Inventor : 1 RONALD APACHEVA ASPINWALL.

Application No. 541/Cal/82 filed May 14, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

1. A variable gain servo controlled directional valve comprising :

a valve body having an elongated bore,
a sleeve in said bore,
a spool mounted for reciprocating movement in said sleeve,
a force motor for positioning said spool in said sleeve,
said valve body having an inlet pressure port and outlet pressure ports,
said sleeve having passages permitting flow from said pressure ports to the interior of said sleeve,

said spool controlling the flow through the sleeve and movable from a null position to selective positions permitting fluid flow to said outlets of said body,

said sleeve including a bypass channel whereby upon shifting movement of said sleeve relative to said body, said bypass channel will permit fluid flow from said inlet port in said body to one or the other of the outlet ports,

and means operable upon movement of said force motor to selectively control movement of said sleeve and said spool.

Compl. specn. 15 pages.

Drgs. 2 sheets.

CLASS 32-F₁ (a)

154494

Int. Cl. C 07 c 69/54.

PROCESS FOR THE PREPARATION OF NOVEL ACRYLIC MONOMERS.

Applicant : THE ALKALI AND CHEMICAL CORPORATION OF INDIA LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA 700 071, WEST BENGAL, INDIA.

Inventor : 1.DR. ANNOOTTAM GHOSH.

Application No. 558/Cal/83 filed May 5, 1983.

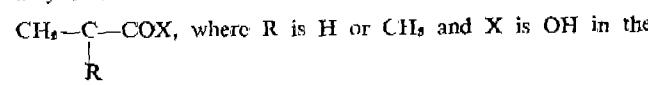
Division of Application No. 817/Cal/80 dated 10th September, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for preparing novel acrylic monomers of methyl esters of ricinoleic acid or mixed fatty acids of castor oil

which comprises reacting the said methyl esters with an acrylic acid or derivative thereof of the formula



presence of a trace of an acid.

Compl. specn. 9 pages.

Drgs. Nil.

CLASS 107-H

154495

Int. Cl. F 02 m 59/00.

A FUEL INJECTION PUMPS FOR SUPPLYING FUEL TO AN INTERNAL COMBUSTION ENGINE.

Applicant : LUCAS INDUSTRIES PLC., OF GREAT KING STREET, BIRMINGHAM, B19 2XF, ENGLAND.

Inventors : 1. GERALD SIDNEY THOMAS, 2. JOHN PUNSHON AND 3. JOHN ALLISON BARR.

Application No. 798/Cal/82 filed July 9, 1982.

Convention date 10th July, 1981 (8121312) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A fuel injection pump for supplying fuel to an internal combustion engine comprising a plunger reciprocable within a pump barrel, a sleeve mounted about the barrel interengaging means on the plunger and sleeve whereby the plunger can partake of axial movement relative to the sleeve but angular movement of the sleeve will be transmitted to the plunger, means carried by the sleeve whereby the angular setting of the sleeve can be varied said means comprising an arm having one end shaped to locate within a recess formed in the sleeve and a pair of limbs extending from the arm in opposite directions, said limbs being shaped to at least partly embrace the sleeve to retain said one end of the arm within said recess.

Compl. specn. 8 pages.

Drgs. 1 sheet.

CLASS 175-H

154496

Int. Cl. F 16 j 1/00.

PISTONS FOR INTERNAL COMBUSTION ENGINES.

Applicant : AE PLC, OF CAWSTON HOUSE, CAWSTON, RUGBY, WARWICKSHIRE, ENGLAND.

Inventor : 1. LUDOVICO BRUNI.

Application No. 897/Cal/82 filed July 31, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A piston for an internal combustion engine comprising a crown, a gudgeon pin bore and, on both sides of a plane including the gudgeon pin bore axis and the piston axis, at least two bearing surfaces, one bearing surface or group of bearing surfaces being towards the crown end of the piston and being spaced by an axially and circumferentially extending gap from the remaining surface or surfaces in an axial direction, the bearing surfaces being disposed about a plane including the piston axis and normal to the gudgeon pin bore axis, and extending only partially around the piston.

Compl. specn. 13 pages.

Drgs. 4 sheets

CLASS 32-E & 40-B

154497

Int. Cl. B 01 j 11/78; C 08 f 1/72, C 08 f 3/04.

PROCESS FOR THE POLYMERISATION OF MONOOLEFINS.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY AND ANIC S.p.A., OF VIA M. STABILE 216, PALERMO, ITALY.

Inventors : 1. MARGHERITA CORBELLINI, 2. ALESSANDRO GAMBA, 3. CARLO BUSETTO.

Application No. 936|Cal|82 filed August 9, 1982.

Division of Application No. 664|Cal|78 dated June 15, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A process for the polymerization of mono-olefin, wherein the polymerization is carried out in the presence of catalyst system comprising (a) a supported co-catalyst such as hereinbefore described and (b) an aluminium compound having the general formula :



wherein R is a hydrocarbon radical, X is a halogen atom and p is a number of from 1-3.

Compl. specn. 14 pages.

Drgs. Nil.

CLASS : 206-E.

154498

Int. Cl. : H 03 k 17|02.

EXPANDABLE DIGITAL SWITCHING NETWORK.

Applicant : INTERNATIONAL STANDARD ELECTRIC CORPORATION, OF 320 PARK AVENUE, NEW YORK 10022, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. ALAN JAMES LAWRENCE, 2. JOHN MICHAEL COTTON, 3. JEFFREY NEIL DENENBERG.

Application No. 1015|Cal|82 filed September 1, 1982.

Division of Application No. 415|Cal|79 dated 25th April, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An expandable switching network, comprising :

- (a) a plurality of stages of multiport switching element each of said elements being adaptable to selectively reflect phase a synchronous traffic entering any port of that element back to any port of that element and to phase synchronously connect any port of said element to any port of that element, and
- (b) means for adapting each of said switching elements to either couple traffic through that element to a switching element in a higher numbered stage of said network or fold said traffic back into the network by reflection.

Compl. specn. 28 pages.

Drgs. 11 sheets.

CLASS : 32F,(b)

154499

Int. Cl. : C 07 d 51|42.

“SYNTHESIS OF 2-ISOPROPYLAMINO-PYRIMIDINE.”

Applicant : SOCIETE D'ETUDES DE PRODUITS CHIMIQUES, A FRENCH COMPANY, OF 4, RUE THEODOLE RIBOT, 75017 PARIS, FRANCE.

Inventors : CLAUDE DEMOSTHENE AND CHRISTIAN ASPISI.

Application for Patent No. 414|Del|80 filed on 4th June, 1980.

Convention date 4th July, 1979. 23224(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

Process for the synthesis of 2-isopropylamino-pyrimidine by aminolysis consisting in refluxing stoichiometric proportions of isopropylamino and 2-methylsulphonyl-pyrimidine in the absence of a solvent

Compl. Specn. 4 pages.

Drg. 1 sheet.

CLASS : 29A, 206E.

154500

Int. Cl. : G06f 11|04.

“DATA TRANSMISSION APPARATUS.”

Applicant : TELEFONAKTIEBOLAGET L M ERICSSON, OF S-126 25 STOCKHOLM, SWEDEN, A COMPANY ORGANISED UNDER THE LAWS OF SWEDEN.

Inventor : JENS ERLAND PEHRSON.

Application for Patent No. 309|DEL|80 filed on 28th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

Data transmission apparatus comprising a transmitting computer, which transmits signal words containing start-stop information, message words and address-control signal information and a receiving computer, to provide separate supervision of faults occurring on the transmission lines and of such errors which are caused by faults in the signalling equipment associated with the transmitting computer on the transmitting side, by faults in intermediate stations in which the address-control signal information is changed, or by faults in the receiving computer on the receiver side, characterized that the signalling equipment (SU) connected to said transmitting computer (A) comprises an inner check sum (S) generating circuit consisting of an adder (AD1) and a register (REG1) connected to the outputs of the adder and fed back to the inputs of the adder, the outputs of the register (REG1) being connected to the inputs of a first data selector (DS1), further inputs of said data selector being connected to outputs of said computer (A), the outputs of said data selector being connected to inputs of an outer check sum (YS) generating circuit consisting of second adder (AD2) and a second register (REG2) connected to second adder outputs and fed back to the inputs of said second adder, the outputs of said register (REG2) being connected to the inputs of a second data selector (DS2), further inputs of said second data selector being connected to the outputs of said first data selector (DS1), the outputs of said second data selector being connected to the inputs of a first parallel/serial converter (PS1), the outputs of which converters are connected to a first line (T1) connected to the input of a first serial/parallel converter (SP1) in a signalling equipment (SUM) included in said intermediate station (EX), said signalling equipment further contains a first outer check sum (YS) checking circuit consisting of an adder (AD3) with inputs connected to the outputs of said first serial/parallel converter and a register (REG3) connected to the outputs of the adder (AD3) and fed back to the inputs of the adder (AD3), the outputs of said register (REG3) also being connected to the inputs of a first comparator circuit (CO1) further inputs of which are connected to the outputs of said first serial/parallel converter (SP1) and the outputs of said first comparator circuit being connected to a control computer (CPM), the outputs of said first serial/parallel converter also being connected to the outputs of a first inner check sum (S) checking circuit consisting of an adder (AD4) and a register (REG4) connected to the output of the adder and fed back to the inputs of the adder, the outputs of said register (REG4) also being connected to the inputs of a second comparator circuit (CO2), further inputs of which being connected to the outputs of said first serial/parallel converter (SP1), the outputs of said second comparator being connected to said control computer (CPM), said outputs from said first serial/parallel converter also being connected to inputs of a buffer store (BM) inputs and outputs of which are connected to said control computer (CPM) and further outputs of said store being connected to the inputs of a new check sum (NYS) generating circuit consisting of an adder (AD5) and a register (REG5) connected to the outputs of the adder (AD5) and fed back to the inputs of the adder (AD5) the outputs of said register (REG5) also being connected to inputs of a third data selector (DS3), further inputs of which are connected to the outputs of said buffer store (BM), the outputs of said third data selector being connected to the inputs of a second parallel/serial converter (PS2) the outputs of which are connected to a second line (T2) said line being connected to the inputs of a second serial/parallel converter (SP2) included in a signal receiver equipment (MU) pertaining to said receiving computer (B) said signal receiver comp-

ment further containing a second outer check sum (NYS) checking circuit consisting of an adder (AD6) with inputs connected to the outputs of said second serialparallel converter and a register (REG6) connected to the outputs of the adder (AD6) and fed back to the inputs of the adder (AD6), the outputs of said register (REG6) also being connected to the inputs of a third comparator circuit (CO3), further inputs of which are connected to the outputs of said second serialparallel converter, the outputs of said third comparator circuit being connected to said computer (B), the outputs of said second serialparallel converter (SP2) also being connected to the inputs of a second inner check sum (S) checking circuit consisting of an adder (AD7) and a register (REG7) connected to the outputs of the adder (AD7) and fed back to the inputs of the adder (AD7), the outputs of said register (REG7) also being connected to the inputs of a fourth comparator circuit (CO4) further inputs of which are connected to the outputs of said second serialparallel converter (SP2), the outputs of said fourth comparator circuit being connected to said computer (B), said outputs from said second serialparallel converter also being connected to inputs of said computer (B).

(Complete specification 16 pages. Drawings 2 sheets).

CLASS : 40F, 206E.

154501

Int. Class : H04r 17/00.

"METHOD OF GROWING A CRYSTALLINE BODY OF SILICON FROM A SILICON MELT."

Applicant : MOBIL TYCO SOLAR ENERGY CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS, U.S.A.

Inventors : FRITZ WALD, JURIS PAUL KALEJS.

Application for Patent No. 379/Del/80 filed on 22nd May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

In method of growing a crystallized body of silicon from a silicon melt, the improvement comprising enveloping the growth zone with a mixture of an inert gas and more than trace amounts of carbon monoxide and/or carbon dioxide.

(Complete specification 32 pages. Drawings 2 sheets).

CLASS : 32A

154502

Int. Class : C09b 11/00.

"ONE POT PROCESS FOR THE SYNTHESIS OF TRIARYLMETHANE DYESTUFFS".

Applicant : BAYER AKTIENGESELLSCHAFT, a body corporate organised under the laws of the Federal Republic of Germany, of Leverkusen, Federal Republic of Germany, Manufacturers.

Inventor : KARL HEINZ HERMANN.

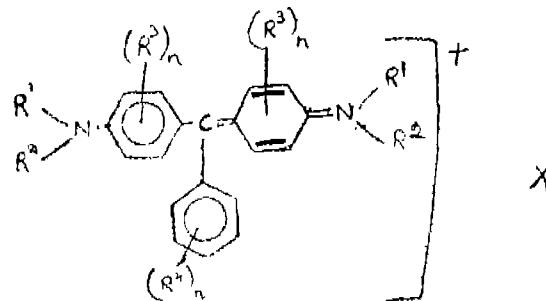
Application for Patent No. 403/Del/80 filed on 3rd June, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2--307GI/84

4 Claims

One pot process for the synthesis of triarylmethane dyestuffs of the general formula I



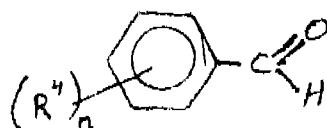
in which

R^1 and R^2 represent optionally substituted alkyl, aryl or aralkyl or

R^1 and R^2, together or with the ortho-position of the phenyl ring, form a heterocyclic ring and R^1 can additionally represent hydrogen,

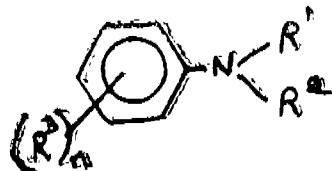
R^3 and R^4 denote hydrogen or non-ionic substituents,

n represents an integer from 1 to 4 and X denotes an anion, characterised in that an aldehyde of the general formula II



in which

R^4 and n have the abovementioned meaning, is subjected to a condensation reaction with an aromatic amine of the general formula III,



in which

R^1, R^2, R^3, and n have the abovementioned meaning, if appropriate in the presence of urea, and the reaction mixture thus obtained is oxidised with oxygen in the presence of catalytic amounts of benzoquinones substituted by halogen or cyano or of phenanthrenequinones substituted by nitro, and in the presence of catalytic amounts of nitrogen oxides—with the exception of dinitrogen monoxide—or of substances which produce such nitrogen oxides under the reaction conditions.

(Complete specification 11 pages. Drawing 1 sheet).

CLASS : 27C,L, 157D,(.) & 136F.

154503

Int. Class : E04b 1/04, B28b 7/10, 13/06.

"APPARATUS FOR MOULDING PRESTRESSED CONCRETE ELEMENTS".

Applicant : FREYSSINET INTERNATIONAL (STUP), of 66 route de la Reine, 92100 Boulogne-Billancourt, France, a French Company.

Inventors : PIERRE LEGRAND & PIERRE GUINARD.

Application for Patent No. 404/Del/80 filed on 3rd June, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

An apparatus for moulding at least a row of prestressed concrete elements and detaching them from their respective moulds comprising, on a horizontal long bed or base, at one end, thereof a stretching device and, at the other end, a releasing device for prestressing tendons; a set of parallel bare tendons connected to both said devices; at least a row of aligned, upwardly open moulds resting on said long bed or base and longitudinally displaceable thereon, said moulds being traversed by said set of tendons; each mould further comprising at least one vertically moveable bottom portion; a vertically displaceable push member associated with each of said moulds for lifting the corresponding bottom portion; inclined ramps carried by said long bed or base for actuating said push members and actuating means for simultaneously operating said inclined ramps.

(Complete specification 12 pages. Drawing 2 sheets).

CLASS : 127I. 154504

Int. Class A01k 15/00.

"A YOKE FOR AN ANIMAL DRAWN VEHICLE".

Applicant : SANTHANAM MUTHUSWAMY APPAVOO MARUTHIA, an Indian National, of 188 M.I.G. Flat Prasad Nagar, Delhi-110005.

Inventors : SANTHANAM MUTHUSWAMY APPAVOO MARUTHIA.

Application for Patents No. 519/Del/80 filed on 15th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

15 Claims

A yoke for an animal vehicle comprising an elongated member built up of three tubular members secured together and loaded by springs provided therein and pivoted to a horizontal bolt lying on the longitudinal axis of the vehicle and pivoted to a central pull beam by means of a vertical bolt passing through a taliplate, guide plates, and the central pull beam, and fitted with saddle shaped load distributors at the adjacent ends corresponding to the shape of the neck and the shoulders of the animal for harnessing of the animal.

(Complete specification 10 pages. Drawing 1 sheet).

CLASS : 127I. 154505

Int. Class : F42b 25/00.

"DEVICE FOR SEQUENTIALLY COUPLING AND SEPARATING A PLURALITY OF PROJECTILES CARRIED UNDER AN AIRCRAFT".

Applicant : THOMSON-BRANDT, a French Company, of 173, Bl. Haussmann, 75008 Paris, France.

Inventors : JEAN PIERRE ROUGET, EDMOND ROUSTANT.

Application for Patent No. 521/Del/80 filed on 15th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A device for sequentially coupling and separating a plurality of projectiles carried under an aircraft, characterized in that said device comprises the following elements :

— a male element associated with a projectile (n) engageable for snap-fastening by rotation within a corresponding female element placed on an adjacent projectile (n-1), said male element being provided with a first hollow cylindrical member which is capable of rotating about its longitudinal axis with respect to the projectile body, a plurality of balls inserted in the said first cylindrical member, said ball being disposed in uniformly spaced relation and maintained in position by the head of a piston internal to and concentric with the first cylindrical member, said piston being capable of sliding along the longitudinal axis of said first cylindrical member;

— a cylindrical female element engageable for snap-fastening around a corresponding said male element placed on an adjacent projectile (n+1), said female element being provided with a second hollow cylindrical member which is stationary with respect to the projectile body, the distal end of said second cylindrical member being provided with a snap fastening rim interrupted by sockets; and

— a plate fixed to said first cylindrical member and fitted with a locking member actuated by a movable key for rotating said first cylindrical member relative to said cylindrical member between a first position in which said balls are released by said sockets and a second position in which said balls are retained by said rim.

(Complete specification 14 pages. Drawings 4 sheets).

CLASS : 127 I, 4A, & 116G. 154506

Int. Class: B64d 7/00, 1/02.

"A SAFETY DEVICE FOR A MUNITION SUSPENDED BENEATH AN AIRCRAFT".

Applicant : THOMSON-BRANDT, a French Company, of 173, Bl. Haussmann, 75008 Paris, France.

Inventor : NOEL FULCHIRON & BERNARD NAILON.

Application for Patent No. 523/Del/80 filed on 15th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims

A safety device for a munition suspended beneath an aircraft, said safety device comprising :

a sliding bar movable between a first position and a second position;

first blocking means for locking said bar in said first position;

cable release means connected between said aircraft and said first blocking means for actuating the release of said first blocking means;

at least one suspending ring engageable with a hook integral with said aircraft;

second blocking means mechanically connected to said at least one ring for locking said bar in said first position when said at least one ring is engaged with said hook;

a fuse lock engageable with each of said apertures, each having first and second cross sections;

a fuse lock engageable with each of said apertures, each said fuse lock including a first rectangular cross section portion engageable with said first cross section of one of said apertures when said sliding bar is in said first position for maintaining said fuse lock in a safety position and a second circular cross section engageable with said second cross section of said one of said apertures when said sliding bar is in said second position for releasing said fuse lock into an armed position;

whereby said fuse locks are released into an armed position only when said release means is actuated and said at least one ring is disengaged from said hook.

(Complete specification 12 pages. Drawing 2 sheets).

CLASS : 176I. 154507.

Int. Class : F22g 7/00.

"VAPOUR GENERATOR WITH A PARTITION BETWEN TWO COMBUSTION CHAMBERS".

Applicants : SULZER BROTHERS LIMITED, OF CH-8401 WINTERTHUR, SWITZERLAND; a SWISS COMPANY; AND

MITSUBISHI HEAVY INDUSTRIES, LTD., OF 5-1, MARUNOUCHI 2 CHOME, CHIYODA-KU, TOKYO, JAPAN, a JAPANESE COMPANY.

Inventor : PAWEŁ MISZAK.

Application for Patent No. 5331Del/80 filed on 21st July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A vapour generator comprising two combustion chambers formed from four enclosing walls and one partition, the enclosing walls and the partition being formed from interconnected tubes which carry working medium, and such working medium flows in series first through the partition and then through the enclosing walls, characterised in that a vapour separator is disposed at the outlet of the partition and its water outlet is connected to the input of the enclosing walls and its vapour outlet bypasses the enclosing walls and is connected to a superheater at its inlet.

(Complete specification 12 pages. Drawing 2 sheets).

CLASS : 98E. 154508

Int. Class : F28f 27/00.

HEAT EXCHANGER.

Applicant : SULZER BROTHERS LIMITED, OF CH-8401 WINTERTHUR, SWITZERLAND, A SWISS COMPANY; AND MITSUBISHI HEAVY INDUSTRIES, LTD., OF 5-1, MARUNOUCHI 2 CHOME, CHIYODA-KU, TOKYO, JAPAN A JAPANESE COMPANY.

Inventor : ALFRED BRUNNER.

Application for Patent No. 5341Del/80 filed on 21st July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(2 Claims)

A heat exchanger comprising four elements A, B, C, D through which a fluid flows in series, comprising change-over means for changing over the sequence of the elements B and C, characterised in that a first three-way valve having one inlet and two outlets is connected to element A on the inlet side and to the inlets of elements B and C on the outlet side, and a second three-way valve having two inlets and one outlet is connected to the outlets of elements B and C on the inlet side and to the element D on the outlet side, the two three-way valves being so constructed that only one of the two paths is ever closable at any time, is being impossible for the two to be closed simultaneously, and a line containing a non-return valve leads from the outlets of each of the elements C and B, the lines being so disposed that they only open the path from the outlet of one element B, C to the inlet of the other C, B at any time.

(Complete specification 8 pages. Drawing 1 sheet).

CLASS : 32F. 154509

Int. Class : C08f 27/00

"METHOD OF STABILIZING ISOOLEFIN POLYMER SLURRIES".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, a corporation of Delaware, United States of

America, carrying on business as a company for the holding of patents and granting licenses thereunder and technical development and research work at 200 Park Avenue, Florham Park, New Jersey, United States of America.

Inventors : KENNETH WILLIAM POWERS, RALPH HOWARD SCHATZ.

Application for Patent No. 5351Del/80 filed on 21st July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

20 Claims

A method of stabilizing a polymerization slurry of C₄-C₇ isoolefin homopolymers or butyl rubber copolymers in a polymerization diluent selected from methyl chloride, methylene chloride, vinyl chloride or ethyl chloride which comprises incorporating into the reaction mixture or into the polymerization product slurry a stabilizing agent which is a copolymer a hydrophilic portion of which is soluble in a polymerization diluent of the kind such as herein described and a hydrophobic portion of which is insoluble in a polymerization diluent of the kind such as herein described, said latter portion being soluble in or adsorbable by said homopolymer or copolymer.

(Complete specification 64 pages. Drawing 3 sheets).

CLASS : 128G. 154510

Int. Class : A61b 5/04.

"IMPROVEMENTS IN OR RELATING TO APPARATUS FOR RECORDING, CONTROL, AND EARLY DETECTION OF CARDIOVASCULAR DISEASES".

Applicant : GEORGES ALBERT BALIQUE, of 29 rue du Docteur Finlay, 73015 Paris, France, a French citizen.

Inventor : GEORGES ALBERT BALIQUE.

Application for Patent No. 5361Del/80 filed on 22nd July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

Apparatus for recording, controlling and early detecting of cardiovascular diseases by detection, recording, and visual and audible display of the heart beat frequency and rhythm from a digital pulse recording picked up by a plethysmographic process at a finger of a hand of a person, said apparatus being characterized in that it comprises at least two different transducer devices of different physical natures, each in operative proximity around said finger and each having a generator for providing a signal of a determined frequency and an associated sensor for sensing signals from said generator, said sensor providing an output signal modulated in amplitude by expansion of the blood vessel walls in said finger; a multiplexing unit connected to said transducer devices via amplifier and shaping circuits and processing output signals from said sensors of said transducer devices, said multiplexing unit being also connected via a first data bus to a display device a recording device and a sound-producing device and via a second data bus to a selector of one of said transducer devices, and via a third data bus to each of said generators.

(Complete specification 28 pages. Drawing 3 sheets)

CLASS : 93. 154511

Int. Class : B01j 21/00.

"GRANULE PRODUCING APPARATUS".

Applicant : TOYO ENGINEERING CORPORATION, of 2-5, Kasumigaseki 3-chome, Chiyoda-Ku, Tokyo, Japan a Japanese Chemical Corporation; MITSUI TOATSU CHEMICALS, INC., of 2-5, Kasumigaseki 3-chome, Chiyoda-Ku, Tokyo, Japan a Japanese Chemical Corporation; and TSUKISHIMA KIKAI CO., LTD., of 2-17-15, Tsukuda, Chuo-Ku, Tokyo, Japan, a Japanese Machine production Corporation.

Inventors : SUSUMU NIO, HIROSHI HIRAYAMA, TETSUZO HONDA, TAKASHI NAGAHAMA, MASAKI NARUO, TERUO YOSHIDA, GISABURO SHIOTSU, YOSHINORI SATOH & KENJI TOYAMA.

Application for Patent No. 537|Del|80 filed on 22nd July, 1980...

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A granule producing apparatus comprising : a container an exhaust means provided to the top of the container; a space in the upper interior of the container for separating solid material from gases; a space for a fluid bed in the lower interior of the container; a porous floor immediately below the fluid bed space for defining the lower limit of the fluid bed; an air chamber beneath the porous floor for supplying air streams to form the fluid bed; a means for supplying jet stream of air, provided below the fluid bed air streams supply chamber; a plurality of parallelly arranged funnels, said each funnel consisting of an inverse truncated cone and a cylindrical pipe connected to the lower end of the cone, said upwardly enlarged cone opens into the interior of the container with its upper end merging with the porous floor; said each cylindrical pipe having its lower end connected to the jetstream supply means; a means disposed within the upper portion of the cylindrical pipe of each funnel for spraying liquid under pressure into the jet air stream so that the sprayed liquid adheres to the granules and solidifies as it dries; a means fitted to the side wall of the container for supplying granules into the fluid bed space; and a means fitted to the side wall of the container for discharging the granules treated out of the fluid bed space.

(Complete specification 15 pages.

Drawing 4 sheets).

CLASS : 205 A. K.H.

154512.

Int. Class : B60c 5|00, 9|00.

"A TYRE AND METHOD OF MANUFACTURING THE SAME".

Applicant : BAYER AKTIENGESELLSCHAFT, a body corporate organised under the laws of the Federal Republic of Germany, of Leverkusen, Bayerwerk, Federal Republic of Germany, Manufacturers.

Inventors : JAKOB IPPEN & FRIEDEL STUTTGREN.

Application for Patent No. 539|Del|80 filed on 22nd July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A tyre comprising an air-tight internal panel, a carcass, a wire cap, a hump strip, a belt, a tread, a shoulder portion, a wire core and a lateral portion, wherein the carcass and internal panel are formed by a carcass fabric embedded in a rubber mixture and an air-tight rubber panel extending over the entire length, which encircles the tyre at least twice and on which an at least double encircling coil having textile threads which cross over at a known angle to the direction of travel in at least three layers built up using high modulus possessing mixture of the kind such as herein defined to form the belt.

(Complete specification 13 pages

Drawing 6 sheets)

CLASS : 128G.

154513

Int. Class : A61m 31|00.

"APPARATUS FOR RETRIEVING A THREAD OF AN INTRAUTERINE CONTRACEPTIVE DEVICE"

Applicant : LIONEL CHARLES RENWICK EMMETT, of 7c Denmark Road, Kingston-Upon-Thames, Surrey, England, a British subject

Inventor : LIONEL CHARLES RENWICK EMMETT,

Application for Patent No. 540|Del|80 filed on 22nd July, 1980.

Convention date 24th July, 1979|25738 (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

Apparatus for retrieving a thread of an intrauterine contraceptive device, comprising elongate distal and proximal portions, the distal portion being flexible and having along its length notches by which in use the thread is caught and withdrawn.

(Complete specification 11 pages, Drawing 1 sheet).

CLASS : 114E.

154514

Int. Class : C14c 1|40.

"PROCESS FOR THE SOAKING OF SKINS AND HIDES IN THE PRESENCE OF AN ORGANIC SULPHUR COMPOUND."

Applicant : ROHM GMBH, a German body corporate of Kirchenallee, 6100 Darmstadt, Federal Republic of Germany.

Inventors : ROLF MONSHEIMER and ERNST PFLEIDERER.

Application for Patent No. 542|Del|80 filed on 23rd July, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A process for the soaking of skins and hides by treatment with water in which for at least part of the duration of the treatment the process is effected in the acid pH range in the presence of at least one compound of formula I

R-SH

(I)

[wherein R represents an alkyl group with 2 to 3 carbon atoms, each carbon atom being optionally substituted with a -SH or -OH group; a -(CH₂)_n-(CHR₁)-COOH group (in which R₁ represents a hydrogen atom, an alkyl group with 1 to 6 carbon atoms or an amino group, and n represents an integer from 0 to 6); or a R₂CO group (in which R₂ represents an alkyl group with 1 to 6 carbon atoms or a phenyl group)] and/or at least one compound of formula II

R¹ — C = S

(II)

— | — NH₂

[wherein R' represents a hydrogen atom, an alkyl group with 1 to 6 carbon atoms or an amino group].

(Complete specification 13 pages).

CLASS : 32 B.

154515

Int. Class : C07c 15|00, 3|10.

"A PROCESS FOR CONVERTING OLEFINS TO AROMATIC HYDROCARBONS AND HYDROGEN."

Applicant : THE BRITISH PETROLEUM COMPANY LIMITED, of Britannic House, Moor Lane, London EC2Y 9BU, England, a British Company.

Inventors : JOHN FRANCIS GRIFFITH ELLIS.

Application for Patent No. 543|Del|80 filed on 24th July, 1980.

Convention date 7th August 1979|79|27534 (U.K.).

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

A process for converting olefins to aromatic hydrocarbons and hydrogen which comprises bringing a mixed feedstock comprising

- (a) a hydrocarbon fraction containing olefins and consisting substantially of C_6 to C_{12} hydrocarbons, and
- (b) saturated and/or unsaturated C_6 to C_4 hydrocarbons into contact in the vapour phase and at temperature of from 300 to 700°C with a catalyst composition comprising an aluminosilicate having a gallium compound deposited thereon and/or an aluminosilicate in which the cations have been exchanged with gallium ions, said aluminosilicate having a silica to alumina ratio of at least 5 : 1.

(Complete specification 11 pages).

Class :—144D.

154516.

Int. Class :—C14b 1|00.

"A METHOD OF MANUFACTURE OF LEATHER".

Applicant :—ROHM GmbH, a German body corporate of Kirschenallee, 6100 Darmstadt 1, Federal Republic of Germany.

Inventors :—MAX MAY, ROLF MONSHEIMER and ERNST PFLEIDERER.

Application for patent no. 544|Del|80 filed on 25th July, 1980.

Appropriate Office for opposition proceedings (Rule 4 Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(9 Claims)

An improvement in the method of manufacture of leather in which skins or hides are subjected to one or more of the processing steps of softening, dehauling, skin decomposition, liming, deliming, batining, picking, tanning, neutralization, re-tanning, dubbing, staining and degreasing which involve treatment with aqueous liquors, at least one of the said processing steps being carried out in a liquor containing from 0.03 to 1.2% by weight, relative to the weight of skin or hide material to be treated, of one or more thickening agents such as covalently bound enzymes (which serve to reduce the amount of aqueous liquor required for the said processing step, subject to the proviso that where the said processing step is the step of softening, then the aqueous liquor for that step shall be no more than 50% by weight relative to the weight of the skin or hide material to be treated).

(Complete Specification 22 pages).

Class :—19A, B2

154517.

Int. Class :—F16b 39|00

"AN IMPROVED SCREW-AND-NUT UNIT".

Applicant :—JACK KARL VILHELM UHLMANN and BENGT GORAN PETFRS, of Kopmarnsgatan 14, S-302 42 Halmstad, Sweden; and Norra vagen 13, S-302 31 Halmstad, Sweden; respectively; both Swedish citizens.

Inventor :—JACK KARL VILHELM UHLMANN.

Application for patent No. 550|DEL|80 filed on 28th July, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(4 Claims)

An improved screw-and-nut unit, comprising a screw spindle body formed with at least one non-threaded section extending along the spindle body, and at least one nut member formed with a threaded section that matches the non-threaded section on the spindle body, said screw spindle body and said nut member being arranged to move axially relative to one another, during which movement the threaded section travels along the non-threaded section of the screw spindle body, and to be turned relative to one another to effect engagement between the threaded section of the nut member and the threads of the screw spindle body, characterised in that the non-threaded section of the screw spindle body and the threaded section of the nut member extend helically along the screw spindle body and the nut member respectively.

(Complete specification 10 pages Drawing 2 sheets)

Class :—88 A, E, D, & 39C.

154518.

Int. Class :—C01b 2|30

"A PROCESS FOR PRODUCING A GAS STREAM FOR THE SYNTHESIS OF AMMONIA".

Applicant :—FOSTER WHEELER LIMITED, a British Company, of Foster Wheeler House, Station Road, Reading, Berkshire, England.

Inventors :—GEOFFREY FREDERICK SKINNER & WIESLAW MAREK KOWAL.

Application for patent No. 552|Del|80 filed on 29th July, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(10 Claims)

A process for producing a gas stream for the synthesis of ammonia which comprises partially oxidising or autothermic reforming oil, coal, natural gas or any combination thereof in the presence of air to produce a gas stream containing hydrogen and nitrogen with a stoichiometric excess of nitrogen of at least 200 mole percent based upon that needed for ammonia synthesis, together with carbon oxides, methane and hydrogen sulphide if sulphur was present in the oil, coal or gas, treating in any known manner the gas stream to remove substantially all of the component gases other than hydrogen and nitrogen, drying the gas stream when water is present, subjecting in any known manner the gas stream to a separation stage to separate a hydrogen-nitrogen gas stream having a predetermined nitrogen : hydrogen ratio suitable for ammonia synthesis and a nitrogen-rich gas stream and injecting in any known manner said hydrogen-nitrogen stream into a reactor for ammonia synthesis.

(Complete specification 17 pages Drawing 3 sheets).

Class :—85 F, I&163D.

154519.

Int. Class :—F27d 15|00, F22b 37|54, 37|52 & F28a 3|16, 15|04.

"WATER DESLAGGER WITH PLANETARY DRIVE".

Applicant :—WHITE CONSOLIDATED INDUSTRIES, INC., a corporation organised and existing under the laws of the State of Delaware, with offices at 11770 Berea Road, Cleveland, Ohio, United States of America.

Inventor :—JAMES NORMAN REED.

Application for patent No. 553|Del|1980 filed on 29th July, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

A fluid deslagger for a power plant comprising a housing; a motor secured to said housing and having a rotary output shaft; an endless chain movably mounted with respect to said housing, said chain being driven by the rotary output of said motor; a travelling carriage having a transmission means, said travelling carriage supporting a fluid discharging lance; said transmission means being driven by rotation of said endless chain, said transmission means comprising two primary sprockets, each rotatable on a sprocket shaft, which sprockets gears, also rotatable on said sprocket shafts, each of said spur gears carried on each of said shafts, each spur gear having a number of teeth different from the other, such that upon movement of said chain, said travelling carriage and said lance will travel with respect to said power plant.

(Complete specification 14 pages Drawing 2 sheets).

Class :—85G, K, 176N.

154520.

Int. Class :—F27b 15|00.

"IMPROVEMENTS IN OR RELATING TO NATURAL CIRCULATION WATER TUBE BOILERS OR STEAM GENERATORS FIRED BY A FLUIDIZED BED COMBUSTION APPARATUS OR FURNACE".

Applicant :—SARASWATI INDUSTRIAL SYNDICATE LTD., of Yamuna Nagar-135001, Haryana, India, an Indian Company.

Inventor :—PERINGANDUR KRISHNAN HARIHARAN

Application for Patent No. 561|Del|80 filed on 1st August, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(6 Claims)

A natural circulation water tube boiler or steam generator fired by a fluidized bed combustion apparatus or furnace, comprising one or more steam and water drum or drums supported by downcoming pipes at the front, the rear and the sides of the steam generator connected to front wall header, rear wall header and side wall headers, tube submerged under the fluidized fuel bed of the furnace and connected to the front and the rear wall headers and supplying steam and hot water mixture to receiving headers at the front and the rear of the generator, front and rear water wall tubes connecting the said receiving headers to the said drum and water wall header tubes at the two sides of the generator connecting the side wall headers to the said drum.

(Complete Specification 7 pages)

Drawing one sheet).

Class :—24-F. 166-B.

154521.

Int. Cl. B63b 21|50.

OFFSHORE BUMPER SYSTEM.

Applicant :—REGAL INTERNATIONAL INCORPORATED, AT NO. 100 WFST TENTH STREET, IN THE CITY OF WILMINGTON COUNTRY OF NEW CASTLE, STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventors :—1. CLARENCE THOMERSON, 2. JAY WARNER JACKSON.

Application No. 279|Cal|80 filed March 10, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office Calcutta.

(11 Claims)

A bumper assembly for use on a marine structure to provide protection from contact from vessels, said assembly comprising in combination :

- (a) a vertically extending contact member;
- (b) a support member extending into said contact member;
- (c) first resilient means positioned between said contact member and said support member;
- (d) spaced upper and lower support arms;
- (e) second resilient means coupling said support member to said upper and lower support arms; and
- (f) means for attaching said support arms to said structural member.

Compl. specn. 23 pages.

Drgs. 6 sheets.

Class 139-A.

154522.

Int. Cl. C09c 1|48.

COOLING APPARATUS USEFUL IN THE PRODUCTION OF CARBON BLACK.

OF 4-1, YURAKU-CRO 1-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors :—1. EIZO MORI, 2. MITSUO NAKAGAWARA, 3. SHOKICHI YAGI.

Application No. 1375|Cal|80 filed December 12, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office Calcutta.

(2 claims)

A cooling apparatus useful in the production of carbon black which comprises a cooling passage for cooling hot gaseous products with particles of carbon black suspended therein in a cylindrical shell surrounding said cooling passage; and said cylindrical rotary drum and said cylindrical shell each having passages therein for passing therethrough a coolant such as water;

Scrapers means mounted in the gas cooling passage on the outer surface of said rotary drum, having an edge in contact with the inner surface of said cylindrical shell and scraper means mounted in the gas cooling passage on the inner surface of said cylindrical shell, having an edge in contact with the outer surface of said rotary drum.

Compl. specn. 9 pages.

Drgs 1 sheet.

Class :—151-C.

154523.

Int. Cl. F16 1 11|00.

HOSE.

Applicant : INSTITUT MATEMATIKII MEKHANIKI AKADEMII NAUK AZERBAIDZHANSKOI SSR-BAKU, ULITSA KETSKHOVELI, 553 KVARTAL, USSR.

Inventors :—1. GASAN MAMED BAGIR OGLY ABDUL-IAEV 2. FARAMAZ GAZANFAR OGLY MAXUDOV, 3. GABIL GARIBKHANOVICH ALIEV, 4. TOFIK KYAZIM OGLY ISMAILOV 5. DAMAD MIR SADYKH OGLY-MIRI-ZADE, 6. ILGAM ALI OGLY GASANOV, 7. YASHAR AKHMED OGLY GADZHIEV, 8. ROVSHAN IBRAGIM OGLY SHAKHMAMEDOV.

Application No. 742|Cal|80 filed June 27, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office Calcutta.

(6 Claims)

A hose comprising an inner supporting tube of an elastic material; an outer protective cover is well of an elastic material; at least two pairs of reinforcing plies interposed between the supporting tube and the protective cover and disposed one directly on the other, each of said reinforcing plies having the form of a set of helically wrapped parallel threads and each pair of the reinforcing plies having the form of two sets of symmetrically wrapped threads, the angle of wrapping of the inner pair of the reinforcing plies with respect to the geometrical axis of the hose exceeding the angle of wrapping of the threads of the outer pair of the reinforcing plies; a non-metallic-fabric interlayer disposed directly on the surface of the supporting tube and serving to uniformly distribute the forces arising between the supporting tube and the pairs of the reinforcing plies in operation of the hose.

(Compl. specn. 48 pages. Drgs. 2 sheets).

CLASS : 23-E.

154524

Int. Cl. : B 65 j 1|00.

CONTAINERS.

Applicant : METAL BOX p.l.c (FORMERLY KNOWN AS METAL BOX LIMITED), OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3JH, BERKSHIRE, ENGLAND.

Inventors : 1. JOZEF TADEUSZ FRANEK, 2. CHRISTOPHER JAMES NIEBUHR TOD, 3. PAUL PORUCZNIK, 4. PETER HAROLD SERBY.

Application No. 1356|Cal|80 filed December 8, 1980.

Convention date 8th December, 1979 (7942425) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

25 Claims.

A container comprising a plurality of components at least one of which is of laminar metallic material, the container having at least one seam securing an edge portion of a said

laminar metallic component to an overlapping edge portion of a component of the container, wherein at least one of the metallic components of the container has, bonded to the metal over at least the surface of the edge portion thereof which faces another edge portion overlapping it in a said seam, a layer of resilient polymeric material which is sealingly compressed between the overlapping edge portions.

(Compl. specn. 27 pages. Drgs. 5 sheets).

CLASS : 40-F & 142. 154525
Int. Cl. : D 06 q 1|00.

FIBRILS TRANSPLANTATION PROCESS AND A HEAT-SENSITIVE TRANSFER THEREFOR.

Applicant : JIN AN INDUSTRIAL CO., LTD., AT 175 MINTSU W. ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA.

Inventor : 1. LIU LAI-CHUN.

Application No. 11|Cal|81 filed January 6, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A fibrils transplantation process wherein a pattern of fibrils is adhered to an object by means of an adhesive, characterised in that the process comprises the steps of first applying a transient adhesive layer (2) on a substrate (1) and planting erect fibrils (3) over all said transient adhesive layer, then applying heat-sensitive adhesive layer (4) on said fibrils in conformity with a predetermined pattern, overlaying the fibrils with an object (5) onto which the fibrils are to be transplanted, to form a laminate, applying a suitable pressure and temperature on both outer surfaces of the laminate to adhere the object to the heat-sensitive adhesive, and finally peeling off the substrate; whereby the fibrils (3) adhered to said heat-sensitive adhesive (4) are transplanted from said substrate (1) to said object (5) and those fibrils without heat-sensitive adhesive remain on said substrate.

Compl. specn. 16 pages. Drgs. 2 sheets. 154526
CLASS : 163-D; 190-B
Int. Cl. : F 01 m 7|00, 11|00.

ROTARY COMPRESSORS, IN PARTICULAR SCREW ROTARY COMPRESSORS.

Applicant & Inventor : PROF. DR.ING. KARL BAMBERT, OF ALLEESTRASSE 3, 3000 HANNOVER, WEST GERMANY

Application No. 19|Cal|81 filed January 8, 1981.

Convention date 25th November, 1980 (64685|80) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A rotary compressor including : a shaft having a rotor mounted thereon, said rotor being operable in a work space to compress a gas passing through the work space, said shaft being rotatably mounted in bearings spaced from said work space, means for supplying lubricant to said bearings, an annular drainage space surrounding said shaft between each said bearing and said work space and for removing the lubricant leakage and gas leakage, a sealing arrangement surrounding said shaft, wherein said drainage spaces are connected by drainage passages to closed collecting chambers substantially at or below the intake pressure of the compressor, from which a feed back of said gas leakage is provided to the intake side of the work space or to the work space itself of the compressor and from which a feedback of said lubricant leakage is provided to the means for supplying lubricant.

Compl. specn. 11 pages. Drgs. 2 sheets.

CLASS : 70-Cs.

154527

Int. Cl. : C 23 b 5|00.

METHOD AND APPARATUS FOR PRODUCING ELECTRODEPOSITED WIRES.

Applicant : DAINICHI-NIPPON CABLES LTD., OF 8, NISHINO-CHO, HIGASHIMUKAIJIMA, AMAGASAKI-SHI, HYOGO-KEN, JAPAN.

Inventors : 1. TATSUJI KASASHIMA, 2. SHUJI MORTA, 3. HIROYUKI HAYAMI, 4. SEIROKU OSE, 5. YOSHINORI TAKADA, 6. FUMIHIRO NOZAKI.

Application No. 153|Cal|81 filed February 11, 1981.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A method of producing an electrodeposited wire comprising the steps of

coating a wire with an electrolytic plating layer,

smoothing the surface of the plating layer substantially cover the entire periphery thereof by bringing the surface of the coated wire into pressing contact with members each having a curved surface, and

further forming an electrolytic plating layer over the smoothed surface.

Compl. specn. 26 pages.

Drgs. 5 sheets

CLASS : 163-B.

154528

Int. Cl. : F 04 c 1|00.

ROTARY FUEL INJECTION PUMP.

Applicant : STANADYNE, INC., OF 92 DEERFIELD ROAD WINDSOR, CONNECTICUT, U.S.A.

Inventor : 1. LEONARD NEWTON BAXTER.

Application No. 227|Cal|81 filed March 2, 1981.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Rotary fuel injection pump for an internal combustion engine having a housing (10) with inlet and outlet passages, a rotor (12) journaled in the housing for rotation about an axis and having a rotor body with a plurality of angularly spaced radially extending bores (40) and a fuel passage (38) in communication with the inner ends of the bores having inlet and outlet ports which communicate alternately with said inlet and outlet passages during rotation of the rotor for alternately conducting fuel to and from the bores respectively, pump plungers (42) reciprocably mounted in the bores to sequentially receive charges of fuel from and deliver them to said inlet and outlet passages respectively, and a plunger operating roller (56) and roller shoe (58) at the outer end of each plunger, a cam ring (46) with an inner cam contour surrounding the rotor in the plane of revolution of the rollers and engageable therewith to translate the cam contour into reciprocable movement of the plungers, and a plunger stroke limit mechanism having means provided with first abutment means and cooperating with second abutment means for each plunger to limit the outward stroke of the plungers and being adjustably mounted on the rotor, a control ring (68) coaxial with the rotor for adjusting the stroke limit means to limit the outward stroke of the plungers, and means for axial adjustment of the control ring, characterized in that the means for limiting the outward stroke of the plunger (42) comprises for each plunger a separate stop member (92) mounted on one circumferential side of the respective roller shoe (58) and movable for adjustment purposes in a linear direction, all of said stop members (92) axially abutting the control ring

(68) for equal axial adjustment of the control ring, and that each stop member (92) has an abutment edge (114) cooperating with a corresponding abutment edge (116) on the respective roller shoe (58), said abutment edges (114, 116) radially overlying and underlying on another and being angularly disposed with respect to said linear direction.

Compl. specn. 16 pages.

Drgs. 3 sheets.

CLASS : 98-E & 193

154529

Int. Cl. : E 21 b 43/11.

APPARATUS SUCH AS HEAT EXCHANGERS AND PERMEATORS.

Applicant : MONSANTO COMPANY, AT 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63166, U.S.A.

Inventor : 1. ROGER SHERMAN OTSTOT.

Application No. 301|Cal|81 filed March 19, 1981.

Appropriate office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

In an apparatus such as heat exchangers and permeators comprising

- (a) an elongated tubular shell having at least one open end;
- (b) an essentially fluid impermeable end closure cap sealingly fastened to and covering said elongated tubular shell at the at least one open end, said end closure cap having at least one fluid port;
- (c) a plurality of hollow fibers which are generally parallel and extend longitudinally to form at least one bundle in the elongated tubular shell;
- (d) an essentially fluid impermeable tube sheet in which the hollow fibers in said at least one bundle are embedded in a fluid tight relationship such that the bores of the hollow fibers provide fluid passageways through the tube sheet, said tube sheet having a bundle face from which the hollow fibers extend in said at least one bundle into the elongated tubular shell, an outer face on the surface of which the bores of the hollow fibers are open, and a lateral surface extending between said bundle face and said outer face;
- (e) a sealing means such that the bores of the hollow fibers providing fluid passageways through the tube sheet are in a fluid tight relationship around the exterior of the tube sheet with respect to the exterior of the hollow fibers extending from the tube sheet.

the improvement wherein the sealing means comprises at least one cup seal comprising a polymeric ring having a concave surface and an external surface, said polymeric ring substantially surrounding and cooperating with a resilient member such that the resilient member can be compressed to provide an outward force on generally opposing portions of the external surface.

Compl. specn. 26 pages.

Drgs. 3 sheets.

CLASS : 32-B & 40-B.

154530

Int Cl. : B 01 j 9/04; C 07 c 1/04, 1/16.

A PROCESS FOR THE SYNTHESIS OF MIDDLE DISTILLATES OF PETROLEUM.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. OF CAREL VAN BYLANDT-LAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : 1. HENRICUS MICHAEL JOSEPH BILWAARD, 2. MICHAEL ADRIAAN MARIA BOERSMA, 3. SWAN TIONG SIE.

Application No. 361|Cal|81 filed April 1, 1981.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A process for the preparation of middle distillates from a mixture of carbon monoxide and hydrogen, characterized in that an H₂ and CO containing feed is contacted in a first stage at elevated temperature and pressure with a catalyst containing 10-40 parts by weight of cobalt and 0.25-5 parts by weight of zirconium, titanium or chromium per 100 parts by weight of silica and prepared by impregnating a silica carrier with one or more aqueous solution of salts of cobalt and zirconium, titanium or chromium, followed by drying the composition, calcining at 350-700°C and reduce at 200-350°C, with the proviso that if the feed has an H₂/CO molar ratio of less than 1.5, water is added to said feed and that the Co-impregnation catalyst is used in combination with a CO-shift catalyst, and that of the reaction product of the first stage at least that part the initial boiling point of which is higher than the final boiling point of the heaviest middle distillate required as final product is subjected in a second stage to a catalytic hydro treatment.

Compl. specn. 22 pages.

Drgs. Nil.

CLASS : 127 A, B & I.

154531

Int. Cl. : F16 d 3/00.

IMPROVEMENTS IN OR RELATING TO FLEXIBLE COUPLINGS.

Applicant : DEVENDRA KUMAR JAIN, RAJENDRA KUMAR JAIN, SATENDRA KUMAR, JITENDRA KUMAR JAIN, AND ARUN KUMAR JAIN, ALL OF 10/1D, LAL BAZAR STREET, CALCUTTA-700001, WEST BENGAL, INDIA.

Inventor : 1. SATENDRA KUMAR.

Application No. 916|Cal|81 filed August 17, 1981.

Complete specification left on 8th July 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A flexible coupling for mechanical power transmission comprising two oppositely disposed flanged shaft hubs, one being driving and the other being driven, and a C- or U-sectioned flexible element e.g. a tyre, clamped in between the said driving and driven hubs for transmission of power from one to the other of said hubs, characterised in that the two side walls of the said flexible element are securedly held in between the outer surface of the flanged portion of each of the said hubs and a pressure plate located at the external side of each of the said flanged portions.

Prov. specn. 6 pages.

Compl. specn. 10 pages.

Drgs. 2 sheets.

CLASS : 23H.

154532

Int. Cl. : B 65 d 25/22, 25/28.

A CONTAINER.

Applicant : METAL BOX INDIA LIMITED, 59C CHOWRINGHEE ROAD, CALCUTTA-700020, INDIA.

Inventor : 1. S. M. ACHAREKAR.

Application No. 1295|Cal|81 filed November 20, 1981.

Complete specification left on April 20, 1983.

Post dated to January 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A container comprising a base, a side wall extending upwardly around said base, a removable lid, and a handle, said side wall being provided with a pair of fixedly mounted lugs diametrically opposed one to the other for engagement each

in snap-fit relationship with interlocking means provided at each end of the handle said interlocking means including inner and outer load bearing members for engagement with said lugs.

Prov. Specn. 4 pages. Prov. Drgs. 1 sheet.

Comp. Specn. 7 Pages. Comp. Drgs. 1 sheet.

CLASS : 23H.

154533

Int. Cl. : A 47 j 47|00.

CONTAINERS.

Applicant : METAL BOX LIMITED, OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3JH, BERKSHIRE, ENGLAND.

Inventors 1. PETER WILLIAM SEVENOAKS. 2. STEPHEN KEI SEY.

Application No. 1268|Cal|81 filed November 16, 1981.

Convention date 18th May 1981 (15199|81) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

A container, comprising a tubular body and a plastics closure member, the body comprising a tubular body wall of rectangular cross-section and an end closure sealing an end of the body wall against escape of product, the body wall and the end closure being integrally formed from a blank of foldable sheet material, the body wall comprising four body panels attached along fold lines extending longitudinally of the body, and the end closure comprising an end panel hinged to one of the body panels and extending transversely of the body into closing relation with each of the three other body panels, the plastics closure member being mounted on the body andovable between a first, open position in which the end panel is exposed to enable a user to rupture it and dispense product from the container, and a second, closed position in which the closure member covers the end panel to provide a reclosure for the container.

Compl. specn. 23 pages. Drgs. 6 sheets.

CLASS : 28A & C., 113B & C.

154534

Int. Cl. : F 21 s 13|00, 15|00.

GAS LIGHTING APPARATUS.

Applicant : APPLICATION DFS GAZ, 173 RUE DE BERCY, 75012, PARIS, FRANCE.

Inventors : 1. DANIEL DEMILLIERE-VERGNAT, 2. JEAN-CLAUDE PIVOT.

Application No. 164|Cal|82 filed February 11, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

Gas lighting apparatus comprising :

— an elongated burner (2) provided with an inlet for the combustible gas and the primary combustion supporting air, and with an outlet adapted to be covered by a gas mantle (4) :

— a cup (9) through which the burner passes, located between the inlet and the outlet thereof, extending substantially perpendicularly with respect to said burner (2), comprising at least one ear (9a) for evacuation of the combustion fumes when the outlet of said burner is directed downwardly;

— a cover (7) traversed at its centre by the burner (2), located between the inlet of the latter and the cup (9), whose convexity is oriented toward the outlet of said burner (2);

— an injector (5) connected on one side with the inlet of the burner (2) and on the other side with a means (16) for supplying combustible gas :

— a glass (17) for protecting the gas mantle (4) and means (13, 14) for removably fixing the latter on the cup (9), characterised in that an elongated tubular sleeve (8) is continuously disposed around and spaced from the burner (2), and is mounted at one end on the cover (7) and at the other end on the cup (9), the ear (9a, 9b) for evacuation of the fumes remaining outside the sleeve, and in that the burner (2) passes freely through the cup (9) through an opening (9c) adapted to the local cross-section of said burner.

Compl. specn. 8 pages.

Drugs. 2 sheets.

CLASS : 55D.

154535

Int. Cl. : A 01 n 9|00.

A PROCESS FOR PREPARING A HERBICIDAL COMPOSITION.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06880, UNITED STATES OF AMERICA.

Inventor : J. FRANCIS HARRY WALKER.

Application No. 1494|Cal|82 filed December 27, 1982.

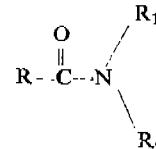
Division of Application No. 1010|Cal|80 dated 4th September, 1980.

Appropriate office for Opposition Proceedings (Rule Patents Rules, 1972) Patent Office, Calcutta

5 Claims

A process for preparing a herbicidal composition, comprising admixing

(a) an antidotally effective amount of a compound of the formula



in which

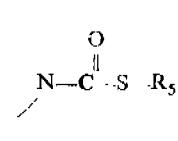
R is 1-4 carbon haloalkyl;

R₁ is selected from the group consisting of hydrogen and 1-4 carbon alkyl; and

R₂ is selected from the group consisting of 2-8 carbon cyanoalkyl, 5-12 carbon cyanoalkylcycloalkyl, 5-12 carbon cyanocycloalkyl, 3-6 carbon cyanoalkylalkoxy, and cyano-benzyl;

provided that when R₂ is cyanoalkyl R is dibromoalkyl; and

(b) a herbicidally effective amount of a compound of the formula



in which

and 2-6 carbon alkenyl;

R₃ is selected from the group consisting of 1-6 carbon alkyl, 2-6 carbon alkenyl, cyclohexyl and phenyl; or

R₃ and R₁ together form a 5-10 carbon alkylene ring; and

R₅ is selected from the group consisting of 1-6 carbon alkyl, 1-4 carbon haloalkyl, 5-10 carbon alkylene ring, phenyl, substituted phenyl, wherein the substituents are 1-4 carbon alkyl, 1-4 carbon haloalkyl, and halo, benzyl and substituted benzyl, wherein the substituents are 1-4 carbon alkyl, 1-4 carbon haloalkyl, and halo.

Compl. specn. 56 pages.

Drugs. 1 sheet.

CLASS : 58D.

154536

Int. Cl. : E 06 b 3/42.

SLIDING WINDOW.

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, OF TROISDORF, BENZ, KOLN, WEST GERMANY.

Inventor : 1. HANS SCHAEFER. 2. WOLFGANG BUDICH.

Application No. 1101|Cal|80 filed September 29, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

35 Claims

A sliding window which includes a frame to be mounted in a wall of masonry, wood, or the like, the frame comprising a plurality of frame profile members joined at corners of the frame, and glass panes adapted to be inserted in the frame, means are provided in the frame guiding the glass panes so as to be horizontally displaceable, characterized in that each of the frame members is made of an extrudable synthetic resinous material and has a substantially U-shaped cross sectional configuration with legs of the U-shaped being formed by two projections, each of the two projections being fashioned as a hollow chamber, the guiding means includes an undercut mounting groove arranged at least in an upper and lower profile member of the frame between the two projections, a web means is provided for connecting the two projections, the web means is formed by two juxtaposed additional hollow chambers, means are provided in one of the additional hollow chambers facing a weather side of the window for draining the undercut mounting groove, and in that the guide means further includes a sliding rail means arranged at least in the undercut groove means of the lower profile member of the frame.

Compl. specn. 18 pages.

Drs. 4 sheets.

CLASS : 32-F1 (a) & 40-B.

154537.

Int. Cl. : C 07 c 45/10.

IMPROVEMENT IN HYDROFORMYLATION PROCESS USING STABLE RHODIUM CATALYST.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : 1. FRNST BILLIG. 2. DONALD LEROY BUNNING.

Application No. 1205|Cal|80 filed October 24, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

27 Claims

In a process for the hydroformylation of an olefin to produce aldehydes having one more carbon atom than the olefin comprising reacting said olefin with hydrogen and carbon monoxide in a liquid reaction medium which contains soluble

rhodium complex catalyst consisting essentially of rhodium complexed with carbon monoxide and a phosphine ligand, the improvement comprising improving the stability of said catalyst against deactivation by employing as said phosphine ligand a phosphine represented by the following formula (I) :



wherein R represents a branched alkyl group or a cycloalkyl group, n represents an integer of 1 or 2 and Ph represents phenyl.

Compl. specn. 33 pages.

Drs. 2 sheets.

OPPOSITION PROCEEDINGS

The opposition entered by Orissa Cement Limited to the grant of a patent on application No. 149652 made by Shyam Sunder Ghose as notified in the Gazette of India, Part-III, Section 2 dated the 9th October, 1982 has been partly allowed and ordered that a patent shall be sealed subject to amendment of the specification.

The opposition entered by Orissa Cement Limited to the grant of a patent on application No 149661 made by Shyam Sunder Ghose as notified in the Gazette of India, Part-III, Section 2 dated the 9th October, 1982 has been partly allowed and ordered that a patent shall be sealed subject to amendment of the specification.

PATENTS SEALED

152474 152519 152521 152525 152542

RENEWAL FEES PAID

123855 128889 129131 133114 133347 136705 136706 136971
136981 137099 137406 137426 137500 137588 137954 138333
138849 140096 140689 141873 142158 142595 142809 143015
143135 143249 143367 143376 143521 143785 144150 144152
144213 144230 145256 145376 145478 145540 145553 145752
145951 146061 146099 146280 146452 146514 146890 147551
148918 149320 149529 149664 150316 150372 150543 150702
150955 151231 151783 151853 151952 152371 152511

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration Patent No. 148411 dated the 11th May, 1978 made by Eadi Bros. & Co. Limited on the 11th January, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 16th June, 1984 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

R. A. ACHARYA,
Controller General of Patents, Designs
and Trade Marks